

HP Insight Management Agents Installation Guide



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1 HP Insight Management Agents overview

Introduction

HP Insight Management Agents deliver multisystem access to all key system administration tools for predictive fault management, access to critical system information, and integration with partner management solutions. Insight Management Agents provides system administrators with the following:

- Performance monitoring—IT administrators can proactively monitor the performance of their HP ProLiant servers by setting predefined thresholds for memory, CPUs, NICs, and logical disks. These thresholds can be set on the Task menu of the System Management Homepage. Web-enabled System Management Agents can be configured to notify designated IT administrators when predefined thresholds are exceeded.
- Greater control of systems—Agents monitor over 1,000 parameters in the system and generate alerts in the event of a fault. Any fault and, in some cases, impending faults are communicated to the designated administrator.
- Day-one control and ease of use—Insight Management Agents are easy to install and deploy and can also be installed silently while configuring the system using the SmartStart configuration process.
- Maintenance of existing infrastructure—Insight Management Agents use industry standards to deliver their alerts and configuration and performance data.

Insight Management Agents

Insight Management Agents operate on devices, performing in-depth monitoring of the device's state by collecting and measuring parameters. These parameters indicate the current state of subsystems by counting the occurrence of particular events (for example, the number of read operations performed on a disk drive) or by monitoring the state of a critical function (for example, whether the cooling fan is operating). Insight Management Agents provide access to device management data using a web browser over industry-standard HTTP protocol, enabling you to access data from any location with network access.

Management Agents can be installed in two ways:

- Manually using the SmartStart autorun menu
- Manually using the HP Management CD



IMPORTANT: Insight Management Agents for Servers are not the same as HP Client Management Agents.

Insight Management Agents provide information to management applications, such as HP Systems Insight Manager, and can generate alarm notifications if significant changes occur in the fault or performance aspects of system operation. Information is delivered to and from the Insight Management Agents through the industry-standard SNMP.

HP Systems Insight Manager

HP Systems Insight Manager delivers intelligent monitoring and alerting as well as visual control of HP hardware. In the unlikely event of a hardware failure, HP Systems Insight Manager also provides a full complement of remote maintenance and control facilities.



NOTE: To install HP Systems Insight Manager on the management console, see the *HP Systems Insight Manager User Guide* on the Management CD.

2 Installation instructions for Microsoft Windows

Installing the Insight Management Agents

The following is a list of services that are installed:

- Insight Foundation Agents
- Insight NIC Agents
- Insight Storage Agents
- Insight Server Agents
- Web Agent
- Event Notifier

System requirements and preinstallation

Insight Management Agents for Microsoft® Windows® are supported on HP ProLiant servers. The agents require the hardware and software described in Table 2-1.

Table 2-1 System requirements

Operating system	<ul style="list-style-type: none">• Microsoft® Windows Server® 2008 (All Editions)• Microsoft® Windows Server® 2003 (All Editions)
Browser	<ul style="list-style-type: none">• Microsoft® Internet Explorer 5.5 or later• Netscape 4.79, 6.22, or 6.23
Device drivers	ProLiant Support Pack for Windows® (contains the HP specific device drivers)
Disk space	Installation of all agents requires at least 30.5 MB of reserved disk space.
SNMP	SNMP service must be installed before the Insight Management Agents for Servers are installed.

Preinstallation of SNMP

SNMP must be installed on your system before you install the Insight Management Agents for Servers.

SNMP services must be installed to take full advantage of the management capabilities provided with the ProLiant server. Failure to install SNMP prevents the HP Systems Insight Manager and other enterprise management applications from receiving hardware pre-failure alerts and disables Insight Manager Functions, such as advanced ProLiant status polling, inventory reporting, and version control.

If SNMP is installed after the Insight Management Agents are installed, the Management Agents must be reinstalled. Before proceeding with the agent installation, complete the procedures in the following sections of this guide.



NOTE: For Windows Server® 2003 and Windows Server® 2008, SNMP is included in the base product but is not installed.

SNMP for Windows Server® 2003 and Windows Server® 2008

SNMP support is included in the base Windows Server® 2003 and Windows Server® 2008 products, but is not installed.

To install the SNMP service in Windows Server® 2008:

1. Select **Start > Settings > Control Panel**.
2. Click **Program and Features**.
3. Click on the option turn Windows Features on or off.
4. Select **Feature Summary>Add Features**.
5. Click **SNMP Services** to select that option.
6. Click **Next**.

7. Click **Install**.
8. After the installation is complete, click **Close**.

To install the SNMP service in Windows Server® 2003:

1. Select **Start>Settings>Control Panel**.
2. Click **Add/Remove Programs>Add/Remove Windows Components**.
3. From the Windows Components Wizard window, select **Management and Monitoring Tools**, and then click **Next**.
4. From the Management and Monitoring Tools window, select **Simple Network Management Protocol**.
5. Click **OK**. The Component Wizard window appears.
6. Click **OK** to start the installation

For more information, see the Windows Server® 2003 or Windows Server® 2008 documentation.

Configuring SNMP for Windows Server® 2003 and Windows Server® 2008

To configure the SNMP:

1. Select **Start>Programs>Administrative Tools>Computer Management**.
2. Select **Services and Applications>Services**.
3. Double-click **Service Name**, and then select **SNMP Service Properties**.
4. Click the **Security** tab, and then click **Add** to add the community string.
For the Insight Agents to function correctly, at least one community string needs to have READ/WRITE access. The community string can be a large, non-unique string that can be forgotten after inputted (that is, it is not used except for inter-agent communications).
5. Select a name for the string and access rights.
6. Click **Apply>OK**.
7. Click the **Security** tab and make sure under **Accept SNMP Packets from these Hosts** includes loopback (127.0.0.1). This is needed for inter-agent communications.

Installing the agents from the SmartStart CD

1. Insert the SmartStart CD into the CD-ROM drive. The SmartStart autorun menu appears.



NOTE: If this is your first time installing this version of the SmartStart CD, you must first accept the license agreement. Click **Agree** to accept the terms and conditions.

2. When the Smart Start CD wizard screen appears, click on **Software** Tab.
3. Select the **Install Proliant Support Pack** option.
4. Click either **Express installation of the PSP for Windows** or **Custom installation of the PSP for Windows**.
5. After HP Smart Update Manager appears, set the location of the updates, and then click **Start Inventory**.
6. Select **Local Host**, and then click **Next**.
7. Select the server OS (Windows Server® 2003, Windows Server® 2008, x86, or x64), and then click **OK**.
8. Click **Install**.

Configuring the SNMP Agents

To configure the SNMP Agents, click the **HP Management Agents** icon from the Windows® Control Panel.



IMPORTANT: You must have administrator rights to access the Insight Management Agents for Servers for Windows® Control Panel.



NOTE: The server might not have all of the tabs described.

Services tab screen

The Services tab enables you to activate or deactivate Management Agents. Agents can be added or removed by highlighting the agent and clicking the appropriate button.

Storage Tab Screen

The Storage tab enables you to disable Fibre Agent tape support:

- To disable **Fibre Array Tape Support**, click the check box.
- To enable **Fibre Array Tape Support**, clear the check box.

SNMP Settings tab screen

The SNMP Settings tab enables you to do the following:

- Set the data collection interval—Controls the interval at which the Insight Management Agents for Servers collect data. Set the time interval for data collection by selecting an interval from the dropdown menu.
- Enable SNMP sets—Enables a management console to modify a limited number of hardware-related parameters. The Insight MIBs define the monitored items that can be modified by the management console. If this system is a UPS group member, mark this item to enable shutdown when commercial power fails.
- Enable remote reboot—Enables a remote management console to reboot the system. Select this option if you want to give a remote machine permission to reboot the system.
- Enable the application exception trap—Enables a managed system to send an SNMP trap and log a Windows® event when an application generates an exception. Afterwards, the default system exception handler is called to handle the exception. The trap and Windows® event contain a detailed description of the process, causing the exception. If this feature is disabled, no trap or event is generated after an application exception. However, the default debugger is invoked to manage the exception.



NOTE: To view the exception traps in HP Systems Insight Manager, set the SNMP trap destination to the address of your management console.

- Disable telnet detection—Prevents detection of telnet. In doing so, the Server Agents report that telnet is not available and that the remote console feature of HP Systems Insight Manager is disabled for this device.
- Send test trap—Enables a test SNMP trap to be sent to the management console. This is a useful feature to test the setup of the Insight Management Agents for Servers and SNMP.
- Clear all thresholds—Enables you to clear all defined thresholds for the device on which the Management Agent for Servers is running.

Asynch Mgmt tab screen



NOTE: Remote Access Service (RAS) must be installed to have access to the Asynch Mgmt tab screen.

The Asynch Mgmt tab enables you to do the following:

- Enable asynchronous management traps—Enables traps to be sent through RAS to a remote management console over a modem. You must also enter the following data for asynchronous management trapping to occur:
 - Destination phone—Dials the number.
 - User name and password—Logs on to the remote machine. You can select a specific logon domain to use, or, if you do not select a specific domain, the domain for the remote machine is used. For more information on remote user names and domains, see the Remote Access documentation from Microsoft®.
 - Retry count—Redials if a busy signal is encountered.



NOTE: For information on setting up Insight Asynchronous Management on the management console for Windows Agents, see the *HP Insight Asynchronous Management User Guide*.

Process Monitor tab screen

The Process Monitor tab screen enables you to have SNMP traps generated when a process (a Windows® service) starts, stops, or both. The list of processes that are currently running appears. The following Process Monitor options are available:

- Select Monitoring Operations—Select a process from the list to set monitoring options for that process. The following options are available:
 - None—No SNMP traps are generated for this process.
 - Start—An SNMP trap is generated when this process starts.

- Stop—An SNMP trap is generated when this process stops.
- Start & Stop—An SNMP trap is generated when this process starts or stops.
- Adding a New Process—Click **Add** to add a new process to the monitor. Enter the name of the new process, and then click **Apply** to add the process.
- Deleting a Process—Highlight a process in the list, and then click **Delete** to delete the process.



NOTE: You can only delete processes that have been created by a user. The Delete button is disabled for system default processes.

Configuring SNMP settings for OpenView Network Node Manager

When OpenView Network Node Manager (NNM) is installed, the SNMP settings must be configured in the SNMP EMANATE agent. The settings are configured in the `snmpd.conf` file, located in the NNM installation directory under `\HP Openview\NNM\conf\SNMP Agent`.

The following is a sample configuration. Other examples are provided in the `snmpd.conf` file.

```
get-community-name: public
set-community-name: PUBLIC
contact: Lab Administrator
location: Integration Test Lab
trap-dest: 170.20.1.10
trap-dest: 170.20.1.11
```

Installing the agents from a cp00xxxx.exe file

Before installing the agents, be sure the server meets the prerequisites for installation. For more information, see the server user guide and release notes.

1. Download the smart component `cp00xxxx.exe` file that you want to install from <http://h18023.www1.hp.com/support/files/server/us/index.html>.
2. Log in to Windows® as a user with administrator rights.
3. Execute the `cp00xxxx.exe` file that contains the HP Insight Management Agents. The HP ProLiant Package Setup window appears.
4. Click **Install**. The extraction progress starts.
5. The HP ProLiant Setup dialog box appears. Setup is ready to begin the install process. Click **Install**.

Command line syntax

The general command line syntax for single component installation is:

```
cpxxxxxx [/s[ilent]] [/f[orce]] [/r[eboot]] [/h[elp]] [/?]
```

where `cpxxxxxx` is the filename of the Smart Component; the `xs` represent the component number.



NOTE: All arguments and information enclosed in brackets are optional. For a full description of the arguments that the Smart Components accept, see the “Command line arguments” section.

If no command line arguments are included with the command, the component GUI appears.

Command line arguments

The following table lists the arguments recognized by Smart Components.

Table 2-2 Command line arguments

Command line argument	Description
<code>/h[elp]</code>	Displays command line Help information.
<code>/?</code>	Identical to the <code>/help</code> argument.

Table 2-2 Command line arguments

Command line argument	Description
<code>/s[silent]</code>	Specifies whether the GUI is suppressed or displayed. Use this argument when scripting the Smart Components to suppress the GUI. If this argument is omitted from the command line, the GUI is displayed.
<code>/f[orce]</code>	When used with the <code>/silent</code> command, this argument installs component in one of the following ways: <ul style="list-style-type: none"> • If the component is already installed and current, it reinstalls itself and the installed version number remains the same. • If a newer version of the component is already installed, the component installs itself and downgrades the component to the older version number. If this argument is omitted from the command line, the installation is not forced.
<code>/r[eboot]</code>	When used with the <code>/silent</code> command, this argument causes the target system to reboot if the installation requires a reboot to complete installation. If this argument is omitted from the command line, the server must be rebooted manually for the installation to take effect. The reboot only takes place if no installation errors occur.

Command line examples

The following table lists examples of command line input for single component installation.



NOTE: Although lowercase letters are used in these examples, either uppercase or lowercase letters can be used.

Table 2-3 Examples of single component installations

Command line input	Result
<code>cp002575</code>	This command line starts installation of the CP002575 .EXE component.
<code>cp002575 /s</code>	This command line installs the CP002575 .EXE component on the target server using the defaults of the component. The GUI is not displayed.
<code>cp002575 /s /f /r</code>	This command line installs the CP002575 .EXE component, forcing the component to install over an existing version, and enabling the server to reboot automatically if needed. The GUI is not displayed.

Return codes

When each Smart Component has finished running, the component reports a return code to the operating system or the calling application.

These return codes are used to determine the status of the component installation. You can also use return codes in a script to control the execution of the script and to determine any branching that is required. Table 2-4 summarizes the Smart Component return codes.

Table 2-4 Return codes

Error level	Meaning
0	The Smart Component failed to install. For more information, see the log file.
1	The Smart Component installed successfully.
2	The Smart Component installed successfully, but the system must be restarted.
3	The installation was not attempted because the required hardware was not present or the software was current.

Configuring the HP Event Notifier

When the system restarts after installing Insight Management Agents for Servers, the Event Notifier Configuration Wizard runs to complete the installation process.

To initiate the configuration wizard, select **Start > Programs > HP Management Agents > Event Notifier Config**. Use the configuration wizard to completely configure the notification service. To guide you easily through the process, the wizard displays the following three screens:

- Welcome to the HP Event Notifier Configuration Wizard
- Mail (SMTP) Server Information
- Event Recipients Information

3 Installation instructions for NetWare

System requirements and preinstallation

Insight Management Agents for Servers for Novell NetWare require the following hardware and software.

Table 3-1 System requirements

Hardware and software	Minimum requirements
Disk space—Insight Foundation Agents	4 MB of reserved disk space
Disk space—Insight Server Agents	2 MB of reserved disk space
Disk space—Insight Storage Agents	2 MB of reserved disk space
Disk space—Insight NIC Agents	1 MB of reserved disk space
Server memory	32 MB of RAM (if using the Web Agent)
Software	NetWare 4.x or later. The latest Novell operating system patch should be installed (if using the HP Web Agent).
Device drivers	Novell Support Software Diskette (NSSD). This diskette provides the HP specific device drivers for NetWare.

Browser requirements

The minimum browser requirements include support for tables, frames, Java™, JavaScript, and Java Development Kit (JDK) 1.1.

Additional browsers, or the browsers in Table 3-2 used with different operating systems, might or might not work correctly, depending on their specific implementations of the required browser technologies.

The required browsers use TCP/IP protocol and are listed in Table 3-2.

Table 3-2 Browser requirements

To view system running	Browser requirements
NetWare 4.x and 5.x	<ul style="list-style-type: none">• Microsoft® Internet Explorer 4.0 version 4.72.2106.8 or later• Netscape Navigator 4.05 or later

Preinstallation

The appropriate device drivers must be installed before installing Insight Management Agents for Servers. Management Agents for Servers for NetWare requires several device drivers from the NSSD. Install the NSSD version listed in the README file.



IMPORTANT: The version of Insight Manager installed on the Management Console must be identical to or later than the version of Insight Management Agents for Servers you are installing on your systems.

Insight Management Agents for Servers

The following tables list Insight Management Agents for Servers (NLMS) and the installation utility delivered with this release of Insight Management Agents for Servers for NetWare. The Insight Management Agents for Servers is composed of the following four components:

- Insight Foundation Agents
- Insight Server Agents
- Insight Storage Agents
- Insight NIC Agent

Table 3-3 Insight Foundation Agents

File name (NLM)	Description
CPQHOST.NLM	HP Management Host Agent
CPQTHRSA.NLM	HP Threshold Agent
CPQAGIN.NLM	HP Server Agent Installation and Configuration Utility
CPQWEBAG.NLM	HP Web-enabled Server Management Agent

Table 3-4 Insight Server Agents

File name (NLM)	Description
CPQBSSA.NLM	HP Base System Agent
CPQHTSA.NLM	HP Server Health Agent
CPQRISA.NLM	HP Remote Insight Agent

Table 3-5 Insight Storage Agents

File name (NLM)	Description
CPQIDESA.NLM	HP IDE Subsystem Agent
CPQSCSA.NLM	HP SCSI Subsystem Agent
CPQDASA.NLM	HP Array Subsystem Agent
CPQFCASA.NLM	HP Fibre Channel Array Agent
CPQSSSA.NLM	HP Storage Box Subsystem Agent

Table 3-6 Insight NIC Agent

File name (NLM)	Description
CPQNCSA.NLM	HP NIC Management Agent

Installing or upgrading HP Insight Management Agents for Servers



IMPORTANT: The version of Insight Manager installed on the management console must be identical to or later than the version of Insight Management Agents for Servers you are installing on your systems.



IMPORTANT: Read the installation instructions completely before installing the software.



IMPORTANT: You can download newer versions of Insight Manager and Insight Management Agents for Servers from the HP management website at <http://www.hp.com/servers/manage>. After accepting the click-wrap license agreement, you can install the HP Insight Management Agents for Servers on additional devices. Insight Manager and Insight Management Agents for Servers can be used on any number of networked clients and servers. You can also obtain newer versions through a SmartStart subscription.

If you have already installed the Insight Management Agents for Servers for NetWare using SmartStart, go to the “Setting up SNMP system description and trap destinations” section.

Installing from the Management CD



NOTE: You can also install the Insight Management Agents from the ProLiant Support Pack for Novell NetWare, which is available with SmartStart or downloadable from <http://www.hp.com/support/files>. For detailed installation information, see the ProLiant Support Pack for Novell NetWare Help file (CPQCSP.TXT).

Read this installation procedure completely before installing the software. The installation varies, depending on whether you are installing all four of the Insight Management Agents for Servers components, or updating only specific components.

To install the Server Agents for NetWare from the Management CD:

1. Insert the Management CD into the CD-ROM drive.
2. Mount the CD mounted as a NetWare volume.
3. Install the Insight Management Agents using either of the following processes:
 - To install all Insight Management Agents for Servers components, type the following at the NetWare system console:
`LOAD [NetWare VOL]:\AGENTS\NETWARE\ENG\ COMPAQ\CPQAGIN`
 - The installation utility, `CPQAGIN.NLM`, installs and configures the Insight Management Agents for Servers for NetWare.
 - To install or update specific Insight Management Agents for Servers components, choose from the following entries made at the NetWare system console.
 - To update only the Insight Foundation Agents, enter the following command:
`LOAD [NetWare VOL]:\AGENTS\NETWARE\ENG\ COMPAQ\CQMGHOST\CPQAGIN`
 - To update only the Insight Server Agents, enter the following command:
`LOAD [NetWare VOL]:\AGENTS\NETWARE\ENG\ COMPAQ\ CQMGSERV\CPQAGIN`
 - To update only the Insight Storage Agents, enter the following command:
`LOAD [NetWare VOL]:\AGENTS\NETWARE\ENG\ COMPAQ\ CQMGSTOR\CPQAGIN`
 - To update only the Insight NIC Agents, enter the following command:
`LOAD [NetWare VOL]:\AGENTS\NETWARE\ENG\ COMPAQ\ CQMGNICS\CPQAGIN`
4. Follow the onscreen instructions, pressing the **F1** key for online help, if needed.
5. After the installation is complete, reboot the system to enable the Insight Management Agents for Servers for NetWare. These agents automatically start each time you reset the system.

Disabling Web-enabled Server Agent from a NetWare server

If you chose to enable Web-based Management when you installed the Insight Management Agents for Servers for NetWare and would like to disable it later, do the following from the NetWare server console:

1. Load `CPQAGIN`.
2. Select the **Configure Existing NetWare Agents** option.
3. Select the line that specifies the load of `CPQWEBAG` and select **No**.
4. Save changes and exit `CPQAGIN`.

This procedure prevents the web-enabled Server Agent from loading.

Installing HP Power Management

HP Power Manager is a set of sophisticated UPS software management tools that come with HP UPS systems. It provides comprehensive configuration and management of UPS systems. Power Manager comes with two main components: server and console. For complete information on installation and configuration of the Power Manager components, see the HP Power Manager documentation.

Server component

The Power Manager server component is installed from the Management CD. Power Manager is backward compatible with Insight Management Agents for Servers. Existing Insight Manager consoles see the same data with Power Manager as with Insight Management Agents for Servers.



IMPORTANT: Power Manager requires Insight Server Management Agents v3.30 or later. You must install Power Manager software after installing Insight Management Agents for Servers software.

Console component

The console component of Power Manager is an addition to Insight Manager. Insight Manager must be installed before installing the Power Manager software. When viewing UPS information on servers with the Power Manager server component installed, the Power Manager screen is displayed. When viewing UPS information on servers without the Power Manager server component, the traditional UPS screen is displayed.

Installing client management support

Client management support can be performed either by Windows NT® domain controllers or NetWare servers. To successfully install this support, Insight Management Agents for Servers must already be installed on all of the client machines you intend to manage. For more detailed information on specific features, see the online *Intelligent Manageability Installation and Configuration Guide* (IMINST.HLP) and the online *Intelligent Manageability Guide* (INTMG3.HLP).

When a client logs in to a server, the login script executes the program CPQCLNT.EXE. This program registers the client with the server and enables you to manage it using Insight Manager.

You can register the client in one of two ways:

- With a server designated in the file CPQCLNT.INI
- With a designated server

The method of registration is determined by command line parameters in CPQCLNT.EXE. By default, the agent installation uses the first method.

Client registration using a server designated in CPQCLNT.INI

Client registration using a server designated in CPQCLNT.INI is the default method of client management. It is set up when client management is enabled in the Insight Management Agents for Servers Control Panel under Windows NT®, or through the CPQAGIN.NLM installation program under Novell NetWare. This method is suitable for small networks where it is easy to identify a particular client in a list. In larger networks with multiple Windows NT® domain controllers, a designated server should be used to prevent clients from appearing on multiple servers, depending on where the client actually logs in.

To register clients using a server designated in CPQCLNT.INI, enter the following command:

```
cpqclnt.exe <cpqclient ini directory>
```

Where <cpqclient ini directory> is the fully qualified UNC path to a directory where CPQCLNT.INI resides.

CPQCLNT.EXE reads the CPQCLNT.INI file specified on the command line, then writes the client INI file to the directory specified in CPQCLNT.INI.

CPQCLNT.INI contains the following lines:

[Options]

DestinationDirectory="//<server>\<directory>"

Where:

<server> is the name of the desktop management server. For Windows NT®, this server must be a domain controller (primary or backup).

<directory> is the shared directory where client INI files are written by CPQCLNT.EXE.

Client registration using a designated server

The method of using a designated server for client registration requires removing the existing command line option and replacing it with the -F parameter. In addition, CPQCLNT.INI must be removed from the server. This method is intended for large, even global, networks. It enables multiple servers in a directory-replicated NT domain to participate in client discovery. For example, this method enables the Australian division of a company to readily manage their clients separately from the Japanese division.

To register clients using a designated server, enter the following command:

```
cpqclnt.exe -F <output directory>
```

Where <output directory> is the fully qualified UNC path to a shared directory named CPQDATA.

With this method of registration, CPQCLNT.EXE writes the client INI file to the CPQDATA directory specified by the -F command line option.

Installing and updating Web Agents on multiple NetWare systems

The following procedure is intended for administrators wanting to use software distribution tools to distribute agent settings from one server to multiple servers on the network. This procedure makes it possible to quickly update all servers on the network automatically without having to manually browse to each one.

If this is an update to an existing installation, and the current settings are being overwritten, see the "Updating existing Web Agent installations on multiple NetWare systems" section.

If this is a new installation of Web Agents, and a common configuration set and passwords are preferred, use the following installation procedure:

1. Install the Web Agents on a single system.
2. Set up the preferred passwords using the web browser, and change the password capability.
3. Search the SYS:SYSTEM\COMPAQ\WBEM directory for the file CPQHMMD.ACL. Save this file for use during bulk deployment.
4. Using the web browser, set up any preferred options on the Options page (follow the **Options** link from the Web Agent home page).
5. Search the SYS:SYSTEM\COMPAQ\WBEM\HOMEPAGE directory for the file CPQHMMD.INI, and save this file for use during bulk deployment.
6. Using whatever bulk deployment tools are at your disposal, create the SYS:SYSTEM\COMPAQ\WBEM directory on each system being deployed.
7. Copy CPQHMMD.ACL to the SYS:SYSTEM\COMPAQ\WBEM directory on each system.
8. Create the SYS:SYSTEM\COMPAQ\WBEM\HOMEPAGE directory on each system being deployed.
9. Copy CPQHMMD.INI to the SYS:SYSTEM\COMPAQ\WBEM\HOMEPAGE directory on each system.

The remainder of the procedure should follow the normal setup process.

Updating existing Web Agent installations on multiple NetWare systems

If this is an update to an existing installation, and the current settings are being overwritten, use the following procedure to update Web Agents:

1. Unload the Web Agent (CPQWEBAG.NLM) before proceeding. This procedure will stop the HTTP server.
2. Follow the previous installation procedure.
3. When the .ACL and .INI files have been copied to the target systems, restart the Web Agent.

The remainder of the procedure should follow the normal setup process.

Setting up SNMP system description and trap destinations

The next step in installing Management Agents for Servers is to set up the SNMP system description and trap destinations. You can accomplish this installation by editing the following files to match your system and network management configurations:

SNMP.CFG

TRAPTARG.CFG

Editing SNMP.CFG

SNMP.CFG is an ASCII text file that provides the SNMP NLM with system name, hardware, location, and contact information. The SNMP.CFG is a sample file and must be edited to reflect the correct information specific to your installation. The SNMP NLM enables the configuration of some MIB-II system identification information with the SNMP.CFG file. You must have the SNMP.CFG file in the \SYS:\ETC directory when the SNMP NLM is loaded for proper configuration of the identification information.

Editing TRAPTARG.CFG

TRAPTARG.CFG is an ASCII text file that lists the addresses of management consoles that should be alerted when the Server Agents detect an important event. This file provides the SNMP NLM with information about where to send alarms. Because the TRAPTARG.CFG in \SYS:\ETC is a sample file, it must be edited to reflect the correct information for your environment. Follow the instructions provided in the sample TRAPTARG.CFG file to update the file to match

your environment configuration. Be sure to place the alarm destination address under the appropriate protocol section and to indent each address with at least one space.

Verify that the network address of the management console where Insight Manager runs is included in `TRAPTARG.CFG`.

To help you determine the network address of your management console when using IPX, you can execute the `USERLIST` program from the management console by entering the following command at the DOS prompt:

```
USERLIST /A
```

For NetWare 4.11, enter the following command:

```
NLIST USER /A
```

A list of PCs logged in to the system is displayed along with the address of each. The PC listed with an asterisk preceding the user name is the PC you are using. The `TRAPTARG.CFG` file needs both the network address and the node address provided by `USERLIST`.



NOTE: If you enter trap destinations into your `TRAPTARG.CFG` file, you must shut down the system and restart it for the destinations to be active.

To verify that you have the proper address configured, use `CPQAGIN`. At the system console prompt, enter the following command:

```
LOAD CPQAGIN
```

Select the **Initiate Test Trap** option. This option delivers an alarm to each configured management application.

Setting up SNMP community strings

The final step in installing Management Agents for Servers is to set up SNMP community strings. SNMP defines a community as the relationship between an SNMP agent and one or more SNMP managers. When SNMP messages are exchanged, they contain two parts:

- A community name and information to validate that the entity sending SNMP messages is a member of an identified community
- Data

The community name defines the authentication mechanism.

Management Agents for Servers for NetWare enables two different user communities to be specified—the monitor community and the control community. The monitor community is designed to give read-only privileges to all SNMP attributes. The control community provides read-write or set privileges.

Use `CPQAGIN.NLM` or `INETCFG` to configure community strings. To enable Insight Manager to perform set operations on system parameters on a NetWare system, you must specify a control community.



NOTE: If you want read-write or set privileges, you must use a control community name other than “public.”

Configuring agents



NOTE: CPQBSSA must be installed to enable Insight Manager to verify that the system is manageable.

To configure Management Agents for Servers for NetWare:

1. At the NetWare console prompt, enter the following command:
`LOAD CPQAGIN`
2. Select the **Configure Existing NetWare Agents** option to display a list of Management Agents for Servers to be configured. The next screen enables you to select which agents you want to configure.
3. To select any additional agents that you want to load or remove, move the cursor to the preferred agent and choose **Yes** or **No**. You can then move the cursor to select or remove additional agents or save the information and continue.
4. Configure Management Agents for Servers for the following parameters:
 - SNMP Monitor and Control support (community and monitor strings)—Use either `CPQAGIN.NLM` or `INETCFG` to change the SNMP community and monitor strings.
 - SNMP Set support—SNMP sets will not be accepted if a control community is not defined.
 - Insight Manager Remote Reboot Polling Interval

The screens that follow depend on the individual Management Agents for Servers installed:

- CPQHOST can be configured to issue or not issue NetWare SAP packets.
- CPQTHRSA can be configured to support the maximum number of threshold entries.

4 Where to go for additional help

In addition to this guide, the following information sources are available:

- *HP Insight Management Agents 7.30 User Guide*
- HP Insight Manager software

Telephone numbers

For the name of the nearest HP authorized reseller, see the HP website, http://www.hp.com/service_locator.

For HP technical support:

- In North America:
 - Call 1-800-HP-INVENT (1-800-474-6836). This service is available 24 hours a day, 7 days a week. For continuous quality improvement, calls may be recorded or monitored.
 - If you have purchased a Care Pack (service upgrade), call 1-800-633-3600. For more information about Care Packs, see the HP website, <http://www.hp.com>.

Outside North America, call the nearest HP Technical Support Phone Center. For telephone numbers for worldwide Technical Support Centers, see the HP website, <http://www.hp.com>.

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